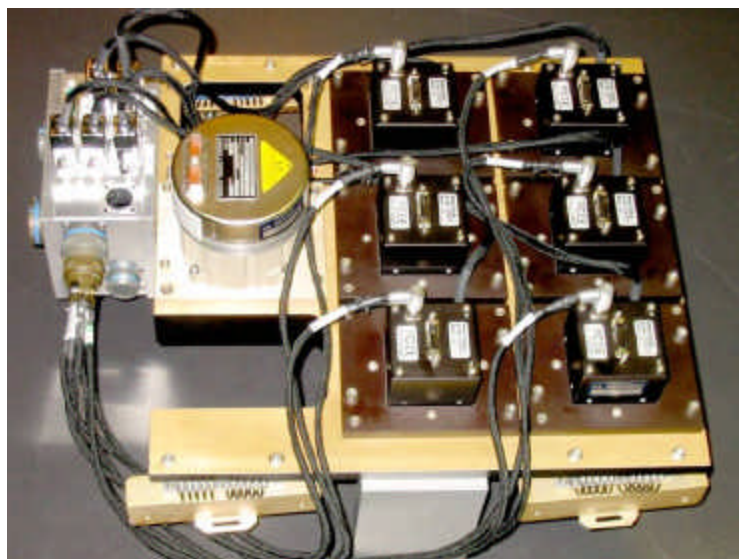


VENDOR DESCRIPTION

SWAMI (Scalable Wide Angle Multispectral Imager) is a six-camera VNIR sensor that allows autonomous and independent computer control of frame rate, aperture, and exposure time to optimize performance for multi-mission capability. The fast-framing, 1.6Kx1.2K cameras are configured to simultaneously capture coincident, wide-angle imagery with 1 in-3 ft GSD up to 30 fps. The mechanical design allows for in-field drop-in replacements and provides modularity for future camera, lens, or filter upgrades. An integrated digital RGB video camera allows for visual on-board, or remote, operator feedback.

Currently designed for airborne detection of surf zone minefields, SWAMI can be easily configured for other military or commercial applications. A data acquisition and storage rack is available for a complete, integrated data collection system.



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MS

Hardware

Power: 135 watts	Operating Speed: 0 knots to 360 knots
Weight: 16 kg or 35 lbs	Operating Temp.: 0°C to 45°C
Dimensions: 356mm x 508mm x 229mm	Storage Temp.: 0°C to 45°C
Internal Volume: 0.04 m ³ or 1.46 ft ³	Interface: Configurable
In-Flight Manipulation of the Sensor: Yes	Bandwidth Required: 950 mbps
Able to Perform in an Environment with 15°/sec Yaw & Pitch Rates	MTTR: 4 hrs
Operating Altitude: 250 ft to 10000 ft AGL	Maintainability: 2-level BIT to LRM level

Performance

Swath Width: 1000 ft @ 10000 ft AGL
Field of View: 20° cross-track, 28° along-track
Sensor Type: 6-camera, Area-Imaging, MSI, VNIR (350 nm - 1000 nm)
Detector Type: Interline Transfer CCD, 2 Megapixel
Frame Rate: 30 frames/sec
Exposure Control: Electronic shuttering
Geolocation Accuracy: 10 meters CEP (coupled with GPS unit)